



2003 Population Estimates of New Hampshire Cities and Towns

Prepared by The

New Hampshire Office of Energy and Planning

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The Office of State Planning (OSP) is required by Law (RSA 78-A:25) to estimate the population of the State's municipalities on an annual basis. The law stipulates that the estimates be certified to the State Treasurer by August 19th and that they reflect population levels of the preceding year. Further, the law requires that the definition of resident be the same as that of the US Decennial Census.

The accompanying figures are **ESTIMATES** and are so labeled. Users of these figures should be aware that many of the data used to calculate the estimates were collected by local governmental units or school districts, for purposes other than accounting for population change. The methods which convert these data, such as school enrollments and building permits, into estimated population have been developed to reflect true population insofar as possible. Data used to calculate estimates in past years are subject to change. For this and other reasons, OEP strongly recommends that these estimates *not* be compared on a year to year basis.

Some communities may have estimating procedures that are different from the ones used by OEP. Also, some communities have established population figures based on their own enumeration (census) efforts. These local efforts can render highly accurate results. The OEP however uses a uniform estimating system, that is applied equally to all 234 communities. It is likely that if OEP staff were to estimate any one municipality on an individual basis, the resulting estimate would be different than the one contained herein.

The accompanying table shows the total population of NH's municipalities for 1990, 2000, and OEP's estimate for 2003. These figures are composed of the household population and persons living in group quarters. Group quarters populations consists of persons living in dormitories, some types of nursing homes, prisons, etc. Many municipalities have no group quarters populations. For the convenience of data users, the table shows *the 2003 group quarters population that is part of the total estimated population*.

Populations for unincorporated areas are not included in this report.

Anyone wishing further information regarding these estimates should contact the Office of Energy and Planning, 57 Regional Dr, Concord, New Hampshire 03301 - telephone (603) 271-2155.

OEP ESTIMATE METHODOLOGY

DWELLING UNIT METHOD

The official estimates of population are based on a dwelling unit method. The method attempts to translate permits issued for new dwellings, into estimated population.

The 2000 US Census serves as a benchmark; changes in the number of dwellings are used to update the dwelling unit counts by the US Census. Two rates are used to convert the estimated number of dwellings into estimated population. These rates are population per household and occupancy rates. These rates vary considerably by housing type. For this reason, data and calculations are divided into; single family, multi-family and manufactured housing types.

The two rates, by type, are calculated for each municipality using the 2000 US Census.

The dwelling unit calculations estimate household population. Group Quarters population, persons living in dormitories, prisons, etc, are estimated using the 2000 census and updated with an annual OEP survey of establishments known to have group quarters population.

Usually the individual municipal estimates are proportionately adjusted to an existing estimated state total. This state total is prepared with the state as a single statistical entity. In turn, this state total results from an adjustment to conform to a national total. The state total is prepared by the Federal-State Cooperative Program for Population Estimates (FSCPE). **However the 2003 OEP municipal estimates were NOT controlled to the FSCP state total.**

The 2002 calculations of the dwelling unit method for the Town of Alton appear below:

	(Census) 2000 Total <u>Units</u>	Permits Issued to <u>2002</u>	Percent of Units <u>Occupied</u>	2003 Occupied <u>Units</u>
Single Family	3,133	124	.4868	1,586
Multi-Family	200	6	.7950	164
Mfg. Units	189	6	.7460	145

	Population Per <u>H'Hold w/adjust.</u>	2002 Est. <u>Population</u>	
Single Family	2.52	3,995	
Multi-Family	2.53	414	
Mfg. Units	1.87	272	
		0	'02 Est. Group Quarters Pop.
		<u>+12</u>	State Total Adjustment (1.002563 for 2002 Estimate)
		4,693	

SCHOOL ENROLLMENT METHOD

The official OEP population estimates are based on the dwelling unit method. However, a school enrollment method is closely monitored to evaluate results based on dwelling unit data. The school enrollment method attempts to use a "known population" - school aged persons - to estimate an "unknown population," persons aged birth to 64 years inclusive. The population aged 65 years and over is estimated using medicare data. The population in group quarters is estimated in the same way as in the dwelling unit method (see above).

The 2000 census serves as a benchmark to convert school enrollment and medicare data into estimated population. The decennial census is used to calculate the ratio between the school aged population and the population aged birth to 64 years. This ratio will be adjusted through the oughts to account for shifts in age structure. This adjustment will be

based on state population estimates by age issued by the Bureau of the Census.

Using Alton as an example, the calculation for the school enrollment method appears below:

Calculate relationship between school enrollment and census.

Adjust school enrollment to 2000 census count.

$$\frac{\text{Pop 6\&17 yrs 2000 census}}{\text{School Enrollment 1999\&00}} \cdot \frac{745}{705} = 1.0567$$

$$\begin{array}{r} \text{School Enrollment 01 - '02} = 738 \\ \times \frac{1.0567}{780} \\ \hline \end{array} \quad \text{(Adjusted school population)}$$

Calculate relationship between age groups 6-17 and birth to 64 years.

$$\frac{(\text{Census}) 2000 \text{ Pop. Birth\&64 Years}}{(\text{Census}) 2000 \text{ Pop. 6\&17 Years}} \cdot \frac{3807}{745} = 5.1101$$

The 2000 census indicates that there were 5.1101 persons aged birth to 64 years for everyone aged 6 - 17 years. In the future, state estimates by age, will be used to change this ratio according to indicated shifts in age structure of the state.

Estimate Birth to 64 population for 2002 by multiplying the adjusted school enrollment by adjusted age ratio:

$$\begin{array}{r} \text{Adjusted '02 school enrollment} \quad 780 \\ \text{Adjusted age ratio} \quad \times 5.1101 \\ \hline \text{2002 estimated pop. B - 64 yrs.} \quad \mathbf{3,986} \end{array}$$

Using medicare enrollment, the county's 2002 pop. 65+, was estimated to be 8,766. In 2000, Alton's population 65 years old and over was 695, this was 8.1803% of Belknap County's total. Applying this percentage to the county estimate of persons over 65 produces a 2002 estimate for Alton's 65+ population:
 $8,766 \times .081803 = \mathbf{717}$ (Alton 2002 pop. 65+.)

Change 2000 to 2002 of Alton's Group Quarters Population = 0

$$\begin{array}{r} \text{Estimated Alton Pop. Birth - 64 Yrs.} \quad 3,986 \\ \text{Estimated Alton Pop. 65+} \quad 717 \\ \text{Change in Group Quarters} \quad \underline{0} \\ \text{Raw 2002 Estimated Pop.} \quad \mathbf{4,703} \end{array}$$

$$\begin{array}{r} \text{State Total Adjustment} \quad \underline{106} \quad (4,703 \times 1.022546) \\ \text{Adjusted Alton 2000 Estimated Pop.} \quad \mathbf{4,809} \end{array}$$

Again, this figure is used to evaluate the outcome of the dwelling unit method.

Municipality	I----- Total Population -----I			2003	2003 Persons per Square Mile
	U.S. Census		OEP	Group	
	1990	2000	Estimate 2003	Quarters Pop	
-----	-----	-----	-----	-----	-----
Alton	3,286	4,502	4,788	0	74.9
Barnstead	3,100	3,886	4,431	0	103.2
Belmont	5,796	6,716	7,103	11	235.6
Center Harbor	996	996	1,041	9	78.1
Gilford	5,867	6,803	7,216	2	186.0
Gilmanton	2,609	3,060	3,305	7	57.3
Laconia	15,743	16,411	16,767	727	834.4
Meredith	4,837	5,943	6,200	144	153.8
New Hampton	1,606	1,950	2,065	3	56.1
Sanbornton	2,136	2,581	2,773	0	58.6
Tilton	3,240	3,477	3,561	222	312.0
Belknap Co.	49,216	56,325	59,250	1,125	147.1

Water area not included in persons per sq. mi calculations

Group Quarters population is included in total population

Municipality	I----- Total Population -----I			2003	
	U.S. Census		OEP	Group	2003
	1990	2000	Estimate	Quarters	Persons per
-----	-----	-----	-----	Pop	Square Mile
Albany	536	654	669	3	8.9
Bartlett	2,290	2,705	2,866	16	38.3
Brookfield	518	604	648	0	28.3
Chatham	268	260	267	0	4.7
Conway	7,940	8,604	8,946	157	128.4
Eaton	362	375	406	0	16.6
Effingham	941	1,273	1,350	116	34.7
Freedom	935	1,303	1,390	5	40.3
Harts Location	36	37	33	0	1.7
Jackson	678	835	859	13	12.9
Madison	1,704	1,984	2,125	0	54.9
Moultonboro	2,956	4,484	4,765	31	79.4
Ossipee	3,309	4,211	4,426	159	62.4
Sandwich	1,066	1,286	1,330	0	14.6
Tamworth	2,165	2,510	2,549	6	42.6
Tuftonboro	1,842	2,148	2,271	0	55.9
Wakefield	3,057	4,252	4,569	0	115.6
Wolfeboro	4,807	6,083	6,371	102	131.8
Carroll Co.	35,410	43,608	45,840	608	49.2

Water area not included in persons per sq. mi calculations

Group Quarters population is included in total population

Municipality	----- Total Population -----			2003	2003 Persons per Square Mile
	U.S. Census		OEP	Group	
	1990	2000	Estimate 2003	Quarters Pop	
-----	-----	-----	-----	-----	-----
Alstead	1,721	1,944	1,997	12	51.2
Chesterfield	3,112	3,542	3,695	0	81.0
Dublin	1,474	1,476	1,524	72	54.6
Fitzwilliam	2,011	2,141	2,243	1	64.8
Gilsum	745	777	814	7	48.8
Harrisville	981	1,075	1,100	0	58.8
Hinsdale	3,936	4,082	4,228	0	204.1
Jaffrey	5,361	5,476	5,665	169	147.5
Keene	22,430	22,563	22,903	2,402	618.1
Marlborough	1,927	2,009	2,085	0	102.2
Marlow	650	747	774	0	29.7
Nelson	535	634	650	0	29.7
Richmond	877	1,077	1,128	9	30.0
Rindge	4,941	5,451	5,940	1,328	160.2
Roxbury	248	237	233	0	19.5
Stoddard	622	928	961	0	18.9
Sullivan	706	746	795	0	42.9
Surry	667	673	720	0	45.9
Swanzey	6,236	6,800	7,009	11	156.0
Troy	2,097	1,962	1,997	0	114.4
Walpole	3,210	3,594	3,674	1	103.0
Westmoreland	1,596	1,747	1,845	289	51.4
Winchester	4,038	4,144	4,239	86	77.1
Cheshire Co.	70,121	73,825	76,219	4,387	107.7

Water area not included in persons per sq. mi calculations

Group Quarters population is included in total population

Municipality	I----- Total Population -----I			2003 Group Quarters Pop	2003 Persons per Square Mile
	U.S. Census		OEP Estimate 2003		
	1990	2000			
-----	-----	-----	-----	-----	-----
Berlin	11,824	10,331	10,641	564	173.1
Carroll	528	663	712	9	14.2
Clarksville	232	294	309	2	5.1
Colebrook	2,444	2,321	2,392	39	58.7
Columbia	661	750	787	3	12.9
Dalton	827	927	984	0	35.7
Dummer	327	309	325	2	6.8
Errol	292	298	346	3	5.7
Gorham	3,173	2,895	2,954	5	92.6
Jefferson	965	1,006	1,038	0	20.7
Lancaster	3,522	3,280	3,386	147	67.4
Milan	1,295	1,331	1,364	0	21.3
Northumberland	2,492	2,438	2,492	0	67.9
Pittsburg	901	867	919	1	3.3
Randolph	371	339	420	2	8.9
Shelburne	437	379	388	0	8.1
Stark	518	516	530	1	8.9
Stewartstown	1,048	1,012	1,028	112	22.1
Stratford	927	942	984	0	12.3
Whitefield	1,909	2,038	2,091	71	61.0
Coos Co.	34,693	32,936	34,090	961	27.5

Water area not included in persons per sq. mi calculations

Group Quarters population is included in total population

Municipality	----- Total Population -----			2003	2003 Persons per Square Mile
	U.S. Census		OEP	Group	
	1990	2000	Estimate 2003	Quarters Pop	
-----	-----	-----	-----	-----	-----
Alexandria	1,190	1,329	1,450	0	33.3
Ashland	1,915	1,955	1,987	0	175.5
Bath	784	893	927	0	24.3
Benton	330	314	320	95	6.6
Bethlehem	2,033	2,199	2,334	25	25.7
Bridgewater	796	974	1,024	0	47.7
Bristol	2,537	3,033	3,148	27	184.4
Campton	2,377	2,719	2,862	0	55.1
Canaan	3,045	3,319	3,467	0	65.0
Dorchester	392	353	373	0	8.4
Easton	223	256	279	0	9.0
Ellsworth	74	87	87	0	4.1
Enfield	3,979	4,618	4,825	25	119.7
Franconia	811	924	976	71	14.8
Grafton	923	1,138	1,178	0	28.3
Groton	318	456	476	0	11.7
Hanover	9,212	10,850	11,116	3,921	226.4
Haverhill	4,164	4,416	4,561	249	89.2
Hebron	386	459	523	0	31.0
Holderness	1,694	1,930	2,017	22	66.1
Landaff	350	378	378	0	13.3
Lebanon	12,183	12,568	13,123	296	325.4
Lincoln	1,229	1,271	1,299	0	9.9
Lisbon	1,664	1,587	1,654	0	62.4
Littleton	5,827	5,845	6,105	32	122.0
Lyman	388	487	529	0	18.6
Lyme	1,496	1,679	1,721	10	32.0
Monroe	746	759	812	0	36.2
Orange	237	299	302	0	13.1
Orford	1,008	1,091	1,152	0	24.8
Piermont	624	709	712	0	18.4
Plymouth	5,811	5,892	6,331	1,967	224.3
Rumney	1,446	1,480	1,549	0	36.9
Sugar Hill	464	563	627	0	36.6
Thornton	1,505	1,843	1,947	0	38.7
Warren	820	873	922	0	19.0
Waterville Valley	151	257	270	0	4.2
Wentworth	630	798	853	0	20.4
Woodstock	1,167	1,139	1,173	0	20.1
Grafton Co.	74,929	81,740	85,389	6,740	51.7

Water area not included in persons per sq. mi calculations

Group Quarters population is included in total population

Municipality	----- Total Population -----			2003	
	U.S. Census		OEP	Group	2003
	1990	2000	Estimate	Quarters	Persons per
			2003	Pop	Square Mile
Amherst	9,068	10,769	11,342	0	334.2
Antrim	2,360	2,449	2,545	10	71.3
Bedford	12,563	18,274	20,181	466	616.1
Bennington	1,236	1,401	1,445	0	127.3
Brookline	2,410	4,181	4,533	0	227.6
Deering	1,707	1,875	1,987	79	65.0
Francestown	1,217	1,480	1,555	0	52.1
Goffstown	14,621	16,929	17,485	1,994	470.7
Greenfield	1,519	1,657	1,744	165	65.8
Greenville	2,231	2,224	2,258	0	328.3
Hancock	1,604	1,739	1,818	0	60.6
Hillsborough	4,498	4,928	5,331	29	122.0
Hollis	5,705	7,015	7,454	0	234.6
Hudson	19,530	22,928	24,005	193	841.3
Litchfield	5,516	7,360	7,829	0	524.7
Lyndeborough	1,294	1,585	1,727	1	57.3
Manchester	99,567	107,006	109,234	2,673	3305.3
Mason	1,212	1,147	1,233	0	51.4
Merrimack	22,156	25,119	26,398	73	809.2
Milford	11,795	13,535	14,418	137	567.3
Mont Vernon	1,812	2,034	2,273	22	135.1
Nashua	79,662	86,605	87,907	1,553	2858.5
New Boston	3,214	4,138	4,716	7	109.7
New Ipswich	4,014	4,289	4,842	25	147.9
Pelham	9,408	10,914	12,051	0	458.5
Peterborough	5,239	5,883	6,086	354	160.1
Sharon	299	360	369	0	23.6
Temple	1,194	1,297	1,452	18	65.3
Weare	6,193	7,776	8,405	1	142.3
Wilton	3,122	3,743	3,926	0	153.3
Windsor	107	201	229	76	27.8
Hillsborough Co	336,073	380,841	396,778	7,876	452.3

Water area not included in persons per sq. mi calculations

Group Quarters population is included in total population

Municipality	----- Total Population -----			2003	2003 Persons per Square Mile
	U.S. Census		OEP	Group	
	1990	2000	Estimate 2003	Quarters Pop	
-----	-----	-----	-----	-----	-----
Allenstown	4,649	4,843	5,032	35	245.9
Andover	1,883	2,109	2,186	14	54.4
Boscawen	3,586	3,672	3,787	431	152.3
Bow	5,500	7,138	7,635	0	271.0
Bradford	1,405	1,454	1,544	21	43.8
Canterbury	1,687	1,979	2,127	3	48.4
Chichester	1,942	2,236	2,440	5	115.1
Concord	36,006	40,687	41,940	3,432	655.7
Danbury	881	1,071	1,119	0	29.6
Dunbarton	1,759	2,226	2,428	0	78.7
Epsom	3,591	4,021	4,380	129	127.0
Franklin	8,304	8,405	8,562	199	309.4
Henniker	4,151	4,433	4,757	536	107.8
Hill	814	992	1,055	0	39.6
Hooksett	8,767	11,721	12,685	861	350.5
Hopkinton	4,806	5,399	5,582	0	129.0
Loudon	4,114	4,481	4,879	2	106.0
Newbury	1,347	1,702	1,940	0	54.2
New London	3,180	4,116	4,379	837	195.9
Northfield	4,263	4,548	4,793	59	167.6
Pembroke	6,561	6,897	7,231	0	319.4
Pittsfield	3,701	3,931	4,233	6	175.5
Salisbury	1,061	1,137	1,215	0	30.7
Sutton	1,457	1,544	1,686	13	39.6
Warner	2,250	2,760	2,898	122	52.5
Webster	1,405	1,579	1,691	4	59.8
Wilmot	935	1,144	1,206	0	41.0
Merrimack Co.	120,005	136,225	143,410	6,709	153.6

Water area not included in persons per sq. mi calculations

Group Quarters population is included in total population

Municipality	----- Total Population -----			2003	2003 Persons per Square Mile
	U.S. Census		OEP	Group	
	1990	2000	Estimate 2003	Quarters Pop	
Atkinson	5,188	6,178	6,578	4	588.4
Auburn	4,085	4,682	4,984	7	195.6
Brentwood	2,590	3,197	3,939	523	232.
Candia	3,557	3,911	4,116	0	135.7
Chester	2,691	3,792	4,488	68	172.4
Danville	2,534	4,023	4,336	3	372.3
Deerfield	3,124	3,678	4,151	54	81.8
Derry	29,603	34,021	34,678	244	978.7
East Kingston	1,352	1,784	1,921	0	193.8
Epping	5,162	5,476	5,879	8	225.4
Exeter	12,481	14,058	14,505	416	734.2
Fremont	2,576	3,510	3,834	42	222.2
Greenland	2,768	3,208	3,377	20	320.4
Hampstead	6,732	8,297	8,529	45	636.2
Hampton	12,278	14,937	15,266	171	1,109.7
Hampton Falls	1,503	1,880	1,988	0	160.5
Kensington	1,631	1,893	2,016	0	168.3
Kingston	5,591	5,862	6,126	0	308.6
Londonderry	19,781	23,236	24,161	10	574.9
New Castle	840	1,010	1,023	11	1,256.2
Newfields	888	1,551	1,626	0	229.2
Newington	990	775	794	26	96.4
Newmarket	7,157	8,027	8,823	41	702.1
Newton	3,473	4,289	4,494	0	456.9
North Hampton	3,637	4,259	4,496	0	322.8
Northwood	3,124	3,640	3,784	3	134.5
Nottingham	2,939	3,701	4,015	0	86.3
Plaistow	7,316	7,747	7,906	11	745.2
Portsmouth	25,925	20,784	21,051	628	1,342.7
Raymond	8,713	9,674	10,237	10	355.3
Rye	4,612	5,182	5,290	110	418.4
Salem	25,746	28,112	29,027	143	1,170.1
Sandown	4,060	5,143	5,563	42	397.7
Seabrook	6,503	7,934	8,391	0	932.4
South Hampton	740	844	881	0	111.4
Stratham	4,955	6,355	6,757	0	446.8
Windham	9,000	10,709	12,138	127	454.2
Rockingham Co	245,845	277,359	291,168	2,767	417.6

Water area not included in persons per sq. mi calculations

Group Quarters population is included in total population

Municipality	I----- Total Population -----I			2003	
	U.S. Census		OEP	Group	2003
	1990	2000	Estimate	Quarters	Persons per
			2003	Pop	Square Mile
Barrington	6,164	7,475	7,968	8	170.6
Dover	25,042	26,884	28,329	804	1,059.5
Durham	11,818	12,664	13,046	4,358	582.3
Farmington	5,739	5,774	6,273	27	171.8
Lee	3,729	4,145	4,319	24	216.1
Madbury	1,404	1,509	1,701	0	147.3
Middleton	1,183	1,440	1,604	2	88.7
Milton	3,691	3,910	4,246	0	128.4
New Durham	1,974	2,220	2,384	1	57.6
Rochester	26,630	28,461	29,642	283	661.3
Rollinsford	2,645	2,648	2,685	0	367.2
Somersworth	11,249	11,477	11,758	38	1,198.1
Strafford	2,965	3,626	3,886	9	79.3
Strafford Co.	104,233	112,233	117,841	5,554	320.8

Water area not included in persons per sq. mi calculations

Group Quarters population is included in total population

Municipality	I----- Total Population -----I			2003	
	U.S. Census		OEP	Group	2003
	1990	2000	Estimate	Quarters	Persons per
			2003	Pop	Square Mile
Acworth	776	836	853	0	21.9
Charlestown	4,630	4,749	4,895	20	136.6
Claremont	13,902	13,151	13,211	198	306.2
Cornish	1,659	1,661	1,698	1	40.5
Croydon	627	661	743	1	20.2
Goshen	742	741	785	8	35.0
Grantham	1,247	2,167	2,326	0	85.5
Langdon	580	586	611	0	37.4
Lempster	947	971	1,035	0	32.0
Newport	6,110	6,269	6,363	116	146.2
Plainfield	2,056	2,241	2,364	0	45.3
Springfield	788	945	995	0	22.8
Sunapee	2,559	3,055	3,166	0	150.3
Unity	1,341	1,530	1,626	242	44.0
Washington	628	895	917	0	20.2
Sullivan Co.	38,592	40,458	41,588	586	77.3
N.H.	1,109,117	1,235,550	1,291,573	37,313	154.7

Population of unincorporated places not included in this report

Water area not included in persons per sq. mi calculations

Group Quarters population is included in total population